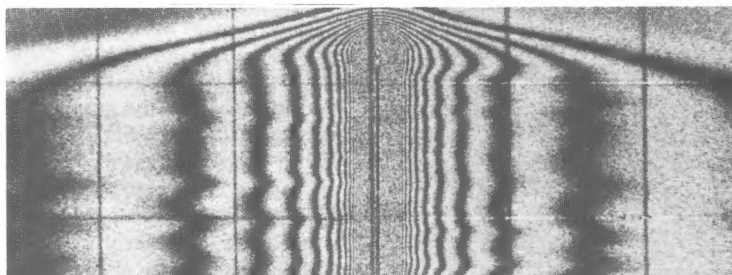


FOLIO NEW TRAIL

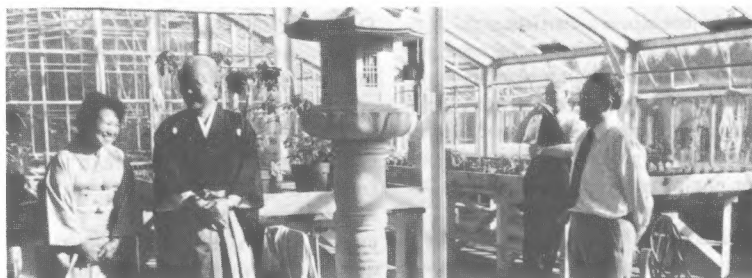


One of the professional Faculties at the University is featured in this issue, from pages 2 to 5. Established first as a Faculty of Applied Science in 1913, The Faculty of Engineering comprises five Departments—Chemical, Civil, Electrical, Mechanical, and Mineral Engineering.



Avalanches, ants and aphids, and arctic clothing are all topics of research at this University. *Research Reporter*—a regular column with an independent national distribution—gives details. Pages 8 and 9.

What happened at the University in 1980? For a review of the past year, an indication of how private individuals and companies can assist our institution, and the University's own efforts to promote research by an Endowment Fund for the Future, read pages 5 to 8.



The Branches, Homecoming '80, and Alumni Notes, pages 10 to 14, will be of special interest to alumni. Your classmates are still active in Montreal, Toronto, Edmonton, and Pugwash, Nova Scotia.

Faculty Profile: Engineering

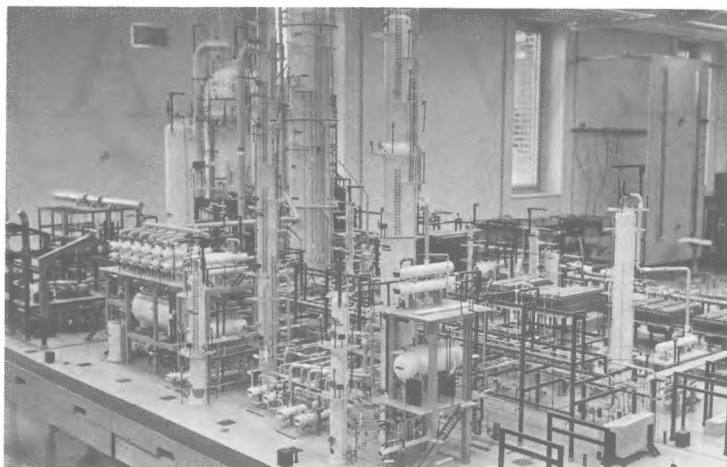
Historical Background

The Faculty of Applied Science was established in 1913, although a program in civil engineering had started five years earlier. In 1948, the Faculty was renamed "Engineering" and by that date programs in electrical engineering (1915), mining and metallurgy (1915), chemical engineering (1926) and petroleum engineering (1948) had been initiated. Mechanical engineering was established as a degree program in 1959, and the Department of Mineral Engineering was created in 1973.

The somewhat "dry" list of names and dates hides the dynamic response of a Faculty that has adapted itself to the changing requirements resulting from Alberta's industrial development. For example, the institution of a petroleum engineering program was a response to the growth of the oil industry that had its future confirmed by the Leduc discovery of 1947. The Department of Mechanical Engineering was created, with the support of the Association of Professional Engineers of Alberta, when it became evident that the Province required engineers who had a special knowledge in the area of applied mechanics. The Faculty established the Department of Mineral Engineering as the result of a study of the requirements and the future potential of the natural resource industry of Canada and that of Alberta in particular. With hindsight the creation of the Department is of increased significance now that the energy crisis has made every citizen aware of the limits to our natural resources.

Enrolment

Although enrolment fluctuated in the past, a rapid increase in the demand for places in the Faculty in the period 1973-76, resulted in the introduction of a quota system in the academic year 1976-77. Since then applications have consistently exceeded the



Scale model of Strathcona refinery, Chemical Engineering.



Structures testing, Civil Engineering

number of positions available and so a "steady-state" enrolment of approximately 1,700 undergraduate students has been reached.

The implementation of the quota system became necessary when the unrestricted enrolment of students at a time of space, equipment and staff limitations would have had a detrimental effect on the quality of the educational programs being offered in the Faculty. In order to try to meet partially the demands of both students for places, and industry for engineering graduates, the Faculty adopted a plan for controlled expansion. To date, however, we have been unsuccessful in attracting the resources neces-

sary to expand the size of the Faculty and yet maintain the required quality of education.

The number of female students has increased very slowly although each year the group forms a larger percentage of total undergraduate enrolment. In 1974, female students accounted for only 1.8 percent of the total undergraduate group while in the 1980-81 academic year they form 7 percent of the group. The Faculty feels that female students are not aware of either the nature of a university engineering education or the career opportunities that are available upon graduation. During the last three years the Women's Engineering Society has visited several high schools in Edmonton and occasionally Northern Alberta to try to give potential applicants a clearer understanding of "engineering." The group is also active in the organization of presentations during the on-campus University Orientation Days held in February. Figure 1 shows the history of undergraduate enrolment in the Faculty and compares it with overall engineering enrolment in Canadian engineering schools. Although we followed the trend across Canada in the period 1965-76, it is evident that from 1976 engineering education opportunities have increased in Canada as a whole,

in marked contrast to the static enrolment in this Faculty.

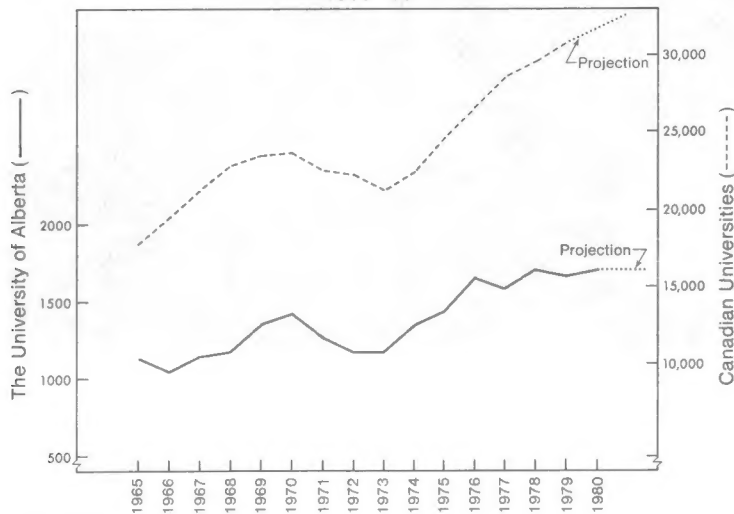
However, engineering graduate student enrolment statistics (see Figure 2) at The University of Alberta reflect the national trend fairly closely. We share the concern of other Canadian schools of engineering that fewer students choose to continue in graduate studies. The probable explanation, especially in Alberta, is that students who obtain BSc (Eng) degrees are able to start work at very attractive salaries. Nevertheless, the Faculty is making efforts to increase enrolments so that the situation does not deteriorate even further. It is essential that graduate programs across Canada maintain an enrolment that is high enough to assure the country of highly skilled engineers. The masters and doctoral students specialize to a greater extent than is possible for students in the undergraduate degree programs. If Alberta is to become a centre for research and development there will be increasing need for graduates with advanced degrees.

Undergraduate Education

A fundamental aim of the Faculty of Engineering is to provide society with individuals who have an understanding of the engineering fundamentals, who have a capacity for further learning, and who are capable of contributing to the creation of a climate favourable for intelligent industrial growth.

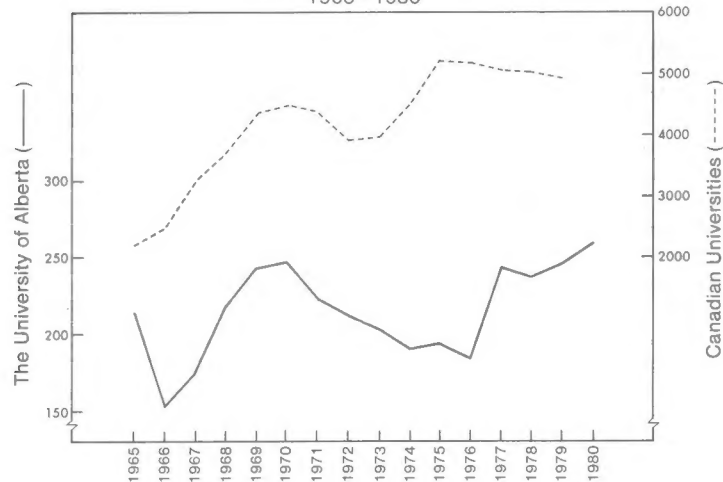
The Departments of Chemical, Civil, and Mechanical Engineering offer programs that allow some specialization within their respective disciplines but overall emphasis is placed on the development of student competence in the particular discipline as a whole. For example, students in the Department of Chemical Engineering are able to take groups of courses that are focussed on such areas as process dynamics and control, natural gas, food processing, and environ-

Figure 1
Undergraduate Engineering Student Registration
1965 - 80



Source: Engineering Manpower News

Figure 2
Graduate Engineering Student Registration
1965 - 1980



Source: Engineering Manpower News

mental engineering. Civil Engineering students have the possibility of choosing technical electives that give added emphasis to hydraulic engineering, surveying, geotechnical engineering, transportation engineering, structural engineering and environmental engineering. The Department of Mechanical Engineering provides students with a broad coverage of all fields of mechanical engineering, and encourages students in its program to obtain additional depth in fields such as applied mechanics, industrial engineering (which includes the areas of production methods and manage-

ment techniques) and thermoscience.

The Department of Electrical Engineering offers three distinct "patterns" of programs. Pattern 1, taken by most students, allows some specialization in areas such as digital microprocessors, telecommunications, power systems, electronics, lasers and biomedical engineering. Students who wish to develop a specialized knowledge in theory are encouraged to take the Pattern II program which is offered jointly with the Department of Physics and is called "Engineering Physics." Well qualified students who are interested in managerial work may

elect to take the Pattern III route which consists of electrical engineering courses augmented by courses in business administration and commerce.

There are four distinct programs offered by the Department of Mineral Engineering—petroleum engineering, mining engineering, metallurgical engineering and mineral process engineering. Those students who are enrolled in the petroleum program take courses dealing with all aspects of petroleum engineering, including drilling and completion, production operations and reservoir engineering. The mining engineering curriculum addresses itself to all phases of mining, including exploration, rock mechanics, mining methods, environmental control, and management. A student in the metallurgical program can expect to complete courses in such areas as extractive metallurgy, physical metallurgy and corrosion. The mineral processing courses are concerned with primary processing of fossil fuels (for example, coal and tar sands), metal-bearing ores and the industrial minerals.

Job Prospects Upon Graduation

In recent years there have been excellent career opportunities for graduates with engineering degrees. Since Alberta is heavily dependent on the oil and natural gas industries, many of our graduates obtain their first position with a company that is either directly or indirectly related to those industries. Chemical engineering graduates have found jobs in the petrochemical industry—mainly in the refining and chemical processing areas. Graduates from the programs offered in the Department of Mineral Engineering have had little difficulty in obtaining engineering-related employment. Graduates from the other programs have often gained employment in the petroleum industry although there are increasing opportunities for students to find employment in their "own discipline." In order to ensure that they continue working in their own specializa-

tion some graduates seek employment with one of the engineering consulting firms. An increasing number of opportunities will probably develop in the field of environmental engineering.

New Program

Approval has been gained from the Board of Governors for a program in computer engineering that will be offered jointly by the Faculties of Engineering and Science through the Departments of Electrical Engineering and Computing Science. It is expected that graduates of this program will be in great demand since industry has expressed the need for people who are well-versed in both the hardware and software aspects of computing. Competition for positions in this quota has been keen and it is expected that students of high calibre will graduate in 1983.

Industrial Support

The Faculty has been pleased with the very tangible support of industry that has developed during the last four years. The Alberta Oil Sands Technology and Research Authority (AOSTRA) possibly started a trend when it initiated a program of sponsoring professorships in Alberta universities. This Faculty is fortunate to have two AOSTRA positions, where funds are provided for the salaries, research activities and associated expenses of the recipients of the award. Since then three additional positions have been sponsored by industry. The Nova Corporation supports the professorship in Welding Engineering; Alberta Power, Calgary Power and Edmonton Power have agreed to sponsor a professorship in Power Engineering; and the Alberta Construction Association has joined this Faculty and the Faculty of Extension in providing funds for a professorship in Construction Engineering. The Welding Engineering professorship has enabled the Faculty to provide a new program at the master's level in welding engineering, the Power Engineering professorship has

helped to strengthen a key area in the Electrical Engineering curriculum and the Construction Engineering professorship will enable the Faculty to provide courses for undergraduate students that focus on aspects of the management of major construction projects. In each case, the holder of the professorship is expected to keep in close contact with the respective sponsors and thus achieve a more formal line of communication with industry than existed before.

Nevertheless, less formal contacts were established many years ago and practising engineers continue to be involved in teaching whether by delivering an individual lecture or seminar, a series of lectures or a full credit course. The Department of Mineral Engineering has had an industrial advisory board in place for several years. The Student Work Experience Program (SWEP) benefits from an advisory board that draws its membership from the major segments of industry in the province.

SWEP

The Faculty of Engineering, recognizing the value that students could derive from practical engineering-related experience, was the original sponsor of the "Student Work Experience Program." The emphasis has always been on helping to provide opportunities for students to obtain discipline-related summer employment although, in one or two cases, it has been possible to accommodate a student who wished to spend eight months in industry. In recognition that industry benefits from a schedule that provides an "employee" on a year-round basis and that students value a system that would incorporate their work experience into their academic record in a formal way, the Faculty has proposed a Co-operative Education scheme that has been accepted by The University of Alberta and is currently being considered for funding by the Department of Advanced Education and Man-

power. If funding is made available, we hope that the program can be implemented for May 1981. The various Departments would join the cooperative scheme during the first five-year period.

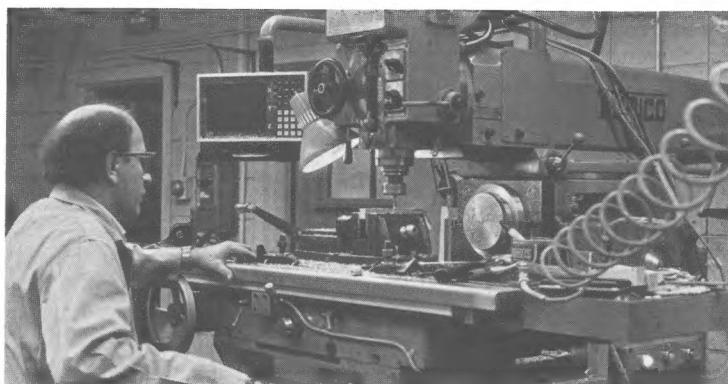
In the case of both SWEP and Co-operative Undergraduate Education the attempt is made to match the student's employment position with his academic background. Another goal of programs which aim at planned industrial experience is to have graduates who will enter the permanent workforce with few "transition" problems and a greater realization of the actual work situations that await them.

Graduate Programs

In addition to the welding engineering program that has been mentioned, the Faculty has developed a master's program in oil sands that is the result of coordinating courses already offered by the Departments in the Faculty. The first group of students started in September 1980 and, since the program is being offered in a cooperative education format, they will return to industry to work for a twelve-month period prior to completing their studies in April 1982. AOSTRA has recognized the importance of a program that will provide highly trained engineers who will work in the oil sands industry. The Authority is supporting twelve of the students during their four-month academic terms and will be employing up to six of the students during the work periods associated with the master's program. Hudson's Bay Oil and Gas Company has also supported an employee during his academic terms and he returns to work with the Company during work terms.

The Department of Civil Engineering has introduced a co-operative program for its MEng degree in geotechnical engineering.

Other graduate cooperative schemes have been arranged for individuals who have interests in such areas as structural design, river engineering and transportation. Generally students will have secured employment and will



In the Electrical Engineering Machine Shop.

have established a work and study schedule that is mutually acceptable to student and employer and, of course, meets the requirements of the Faculty of Graduate Studies and Research.

Research

A vigorous research program not only provides a vehicle for instruction but also contributes to the development of the faculty members involved and serves as an excellent means of promoting long-term industrial growth. It is impossible to detail all the research being undertaken by the Faculty in this brief report but some examples may be of interest. Most of the Departments in the Faculty have academic staff who are involved in tar sand-related research. This can range from experiments to determine the feasibility of separation of sand and oil by electrical processes in the Department of Electrical Engineering, to a study of *in situ* recovery in the Department of Mineral Engineering, and geotechnical studies in the Department of Civil Engineering.

Three Departments are involved in research projects that address themselves to aspects of biomedical engineering. The Department of Mechanical Engineering was recently involved testing the strength of various hip joint devices—work that is being followed up by the Department of Mineral Engineering from the point of view of corrosion characteristics of the prosthetic

devices. The Department of Electrical Engineering has research that is concentrating on the medical application of lasers.

A major project is underway in the Department of Mechanical Engineering to determine the energy conservation and solar heating characteristics of houses. In the Department of Chemical Engineering work of international repute is in progress on the thermodynamic properties of natural gas and oil. The Data Acquisition Control and Simulation (DACS) Centre operated by Chemical Engineering allows sophisticated computer applications to be carried out, for example, on petrochemical process control techniques and the Department offers one of the best opportunities available anywhere in the world for education and development in the area of process control and real-time sensor-based computer applications. Research on different techniques on the recovery of oil and coal and mineral processing is carried out in the Department of Mineral Engineering.

Research to establish design criteria for steel, masonry, concrete and wood is underway in the Department of Civil Engineering. This includes a major study on the behavior of buildings that house nuclear reactors during over-pressure conditions. The reference design was that of the Gentilly 2 nuclear power plant that is being used in CANDU power plants in New Brunswick, Argentina, and Korea.

Cold climate engineering is

another area of research that is being carried out in several Departments. One of the many geotechnical projects in the Department of Civil Engineering is concerned with the behavior of frozen ground. Another research project examines the effects of ice jams in rivers. Research in the Department of Mechanical Engineering includes a study of the characteristics of heat transfer in an Arctic environment and an investigation of icing.

Research Funds

The information supplied in Figure 3 shows that although the Natural Sciences and Engineering Research Council (NSERC) continues to provide most of the research funds available to faculty members, the funding attracted from other sources plays an increasingly important role. Individual faculty members have become more involved in mission-oriented contract research. One of the advantages is that graduate students are involved in projects that are of direct interest to industry, and when they eventually leave to pursue their careers they help enable the transfer of technology from the University to industry. It is also beneficial to faculty members to be involved in research that is of direct interest to industry since it promotes useful interaction

with industry and, of course, eventually enriches the undergraduate and graduate curricula.

Research Organizations

In an attempt to provide a focus for research projects that may be interdisciplinary, the Faculty has established two Centres that will act as coordination vehicles. The Centre for Medical and Dental Technology seeks to keep faculty in the medical sciences aware of the help they can receive from this Faculty for engineering problems in the fields of medicine and dentistry. It also attempts to link requests for assistance with the appropriate faculty member. The Institute for Coal Research also hopes to act as an information-exchange centre and link academic staff from different Faculties that are engaged in coal-related research.

Investigations are also underway to determine the feasibility of establishing a Centre of Excellence for composite materials research. The importance of developments in the area of composite materials and the potential that they have for the establishment of a high technology base in the Province gives added importance to the creation of this Centre. □

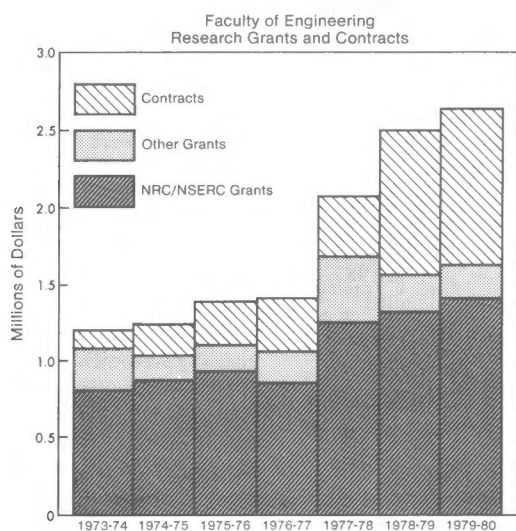


Figure 3

Endowment Fund High on Financial Hit Parade

"Money is like muck, not good unless it be spread."

Francis Bacon's sentiment could be echoed by The University of Alberta at the drop of a matching grant. Each year many donations of cash and gifts-in-kind to various components of the University are topped off by matching grants from the provincial government. This benevolence was enhanced on 14 May 1980 when the Hon. Jim Horsman, Minister of Advanced Education and Manpower, announced in the Legislature the establishment of the 1980s Advanced Education Endowment Fund. The Fund replaced the 3 Alberta Universities Fund and enables the government to provide up to \$80 million in matching grants to Alberta public post-secondary institutions in the coming decade. The government can match gifts for approved capital projects such as construction and the acquisition of equipment. It can also match the revenues from endowment gifts for operational purposes.

All legitimate functions of institutions, including teaching, research and community service, are eligible for matching grants under the Fund. Since the establishment of the Fund, the University has received thirty-eight matching grants having a total value of \$167,858.

During late 1979 and 1980 the following donations were among those which the University gratefully received and which were accorded matching grants in 1980:

- \$25,000 from the Gladys and Merrill Muttart Foundation for development of the Muttart Display House at The University of Alberta Devonian Botanic Garden.
- \$18,000 from the Arthritis Society to assist with the purchase of research equipment for The University of Alberta Hospitals' Rheumatic Disease Unit.
- \$6,000 from the Edmonton Eskimo Football Club to assist

with the purchase of equipment for the Golden Bears.

- \$2,790 from the Samuel and Saidye Bronfman Family Foundation for the acquisition of books and journals by the Centre for the Study of Mental Retardation.
- Atomic Energy of Canada Ltd.'s gift-in-kind of a radioactive source for use in a prototype diagnostic device (gamma-ray computed tomography) developed in the Division of Biomedical Engineering and Applied Sciences. The gift was valued at \$1,330.
- A donation of \$2,272 by a group of people for construction of the Flavin Memorial Bridge at the Devonian Botanic Garden.
- \$15,000 from the Friends of the Devonian Botanic Garden for the project "Plant Exploration, Collection and Introduction."
- A donation of \$1,000 from Deloitte Haskins and Sells Chartered Accountants for

FOLIO NEW TRAIL

Volume Seventeen
Number Thirty

Folio/New Trail: Special alumni issue. Circulation: Four times a year, 67,000. Alumni Affairs Editor: Alex G. Markle

Folio: The University of Alberta newspaper. Circulation: Weekly: 8,000. Editor: Chris J. Simpson. Associate Editor: Myron H. Rockett. Design Editor: David J. DiFrancesco

Office of Community Relations
423 Athabasca Hall
The University of Alberta

Telephone: (403) 432-2325
Director: W.A. Preshing
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materials for use in the Faculty of Business Administration and Commerce's Winspear Reading Room.

- \$750 from the Alberta Law Foundation for legal materials for the Extension Library.
- \$3,750 from the Alma Mater Fund for equipment for the Patricia Austin Centre for Physical Research Activity.
- \$2,000 from the Kinette Club to assist with the purchase of a spirometer by the Department of Pediatrics.
- \$2,500 from the Alberta Dental

Association for the purchase of dental archival material.

- \$2,520 from the Royal College of Physicians and Surgeons for library books.
- \$12,500 from Dr. Frank Keeping of Edmonton for the purchase by the University Collections of "Ten Colour Woodcuts" and "Gimli 2" by W.J. Phillips.
- \$225 from Ron and Ruth Solms of Wilmette, Illinois for the purchase of *Commercial Atlas and Marketing Guide, 70th Edition, 1939*.

- The donation by E. Prevey of Kansas City, Missouri, a graduate of The University of Alberta's Faculty of Home Economics, of a family quilt, a baby bonnet and two Home Economics hoods to the Faculty's Historic Costume Collection. The value placed on the donation was \$730.
- Mrs. Margaret Brine of Edmonton gave \$2,000 to assist the Devonian Botanic Garden in making paths for the Plants of Alberta border.
- \$100 from Andrew Wynnyk of Edmonton to be used by Special Collections in book purchasing.

- \$300 from Speedo Canada Ltd. to assist with the purchase of equipment for The University of Alberta Swim Team.

These donations and others which await a decision by the government on whether or not matching grants will be released underline the aptness of Mr. Horsman's statement concerning his confidence that new Fund would "accommodate the private sector's offers of support and, at the same time, stimulate further public involvement in the development of the post-secondary system in Alberta." □

1980—The Year in Review

In a sense the running phenomenon is anything but new at The University of Alberta.

Each year for more than seventy years the University has run the gamut of events. 1980 was no exception. The year contained everything from a seminar on song, sex and mating strategy in aquatic bugs to the staging of a successful bid to host, along with the City of Edmonton, the 1983 World University Games.

As well, teaching and research, the bulwarks of the institution, continued on an even course. Such progress should, in the coming years, be abetted by two occurrences in 1980—the work of General Faculties Council's Committee for the Improvement of Teaching and Learning and the appointment of Dr. Gordin Kaplan as Vice-President (Research).

The University's stature as a public (and public-minded) institution was reinforced through involvement in meetings on such issues as second language requirements of post-secondary institutions and the site of the proposed fieldhouse for the World University Games, and the sponsorship of numerous lectures, forums and concerts. Tours of the University Farm and the campus observatory again proved exceedingly popular.

Baseball pitcher (and sage)

Satchell Paige once advised against looking back because "something might be gaining on you." At the beginning of a new year, however, a backward glance, perhaps even a studied gaze, is in order. There is much to see and review including the following items:

- In January, the Board of Governors approved a funding scheme of up to \$2,500,000 over four years for the purchase of a PLATO Computer-Assisted Instruction System. The action was in keeping with the University's position as a leader in the development of computer assisted instruction. The official announcement of the purchase of a PLATO (Program Logic for Automated Teaching Operations) system from Control Data Canada Ltd. was made on 27 March.
 - The University Press received \$55,000 from Alberta Advanced Education and Manpower to help with the publishing of Western Canadian works.
 - Also in January, the Faculty of Home Economics was advised of a commitment of \$250,000 from the Clifford E. Lee Foundation to pursue research in the field of child development.
 - The Board of Directors of the Canadian Interuniversity Athletic Union made a rather auspicious announcement on 18 January.
- The University of Alberta, the Board said, had emerged as Canada's choice to host the 1983 Universiade. A few months later, on 13 September, the steering committee of the Fédération Internationale du Sport Universitaire announced that The University of Alberta and the City of Edmonton had been selected to host the 1983 World University Games. The palpable sense of excitement was soon tempered by the realization that sleeves would have to be rolled up and remain there until 12 July 1983, the conclusion of the Games.
- Early in February the Board of Governors earmarked \$40,000 to the University Senate's newly formed Commission on University Purpose. The commission's plans centre on a public awareness program spearheaded by well-known guest speakers, a public participation program by which the views of people from various walks of life will be sought, a research program, and, in 1982, the publication of a detailed account of the proceedings.
 - To produce information that can serve as a reliable basis for planning, the University decided that a system of reviews of all programs and units was in order. "The reviews," said Dr. George Baldwin, Vice-President (Academic) "will place the University

in a vastly better position than now to assert our proper role internally and in the community at large, instead of weakly reacting to external pressures."

- A graduate program in public management for the Faculty of Business Administration and Commerce was okayed by the Board of Governors.
- On 7 March, the Board learned that the University's 1980-81 preliminary operating budget provided for total net expenditures of \$149,320,000. Unfortunately, this figure signalled the need for another tuition fee increase of 10 percent.
- Thanks to support by the Alberta Oil Sands Technology and Research Authority, the University opened a Master's degree program in Oil Sands Engineering. Six students were to be supported by the Authority for a two-year period.
- The Faculties of Nursing, Business Administration and Commerce and Rehabilitation Medicine received good news on 2 May. A supplementary provincial government grant of \$810,000 meant that the Faculties' admission quotas for 1980-81 could be expanded. Nursing could accept 144 students (double the previous quota) in the first year of the Post RN, Bachelor of Science Nursing

Program; Business Administration and Commerce could go from 410 students to 485; and the Department of Occupational Therapy within Rehabilitation Medicine could accommodate 36 students, an increase of six.

- The establishment of a Department of East Asian Languages and Literatures was approved by the Board of Governors 2 May.

- "Buy land, they're not making it anymore," said Will Rogers. However, the University, on 6 May, confirmed that it had sold land—47.3 acres in the northeast corner of the Edmonton Research Station—to the provincial government. This was perhaps the University's biggest decision of the year but, as the saying goes, you have to give up something to get something, and the something the University got was \$14.4 million.

- The coffers were added to later in the month when the University received a 1980 Metropolitan Life Educational Award in the form of a \$10,000 grant. The University was one of nine institutions out of some 200 applicants to receive the award. The grant is being used to study possible structures for a native studies program.

- Wear and tear on University buildings can be expensive as the Board of Governors well knows. On 6 June, the Governors channelled \$5.4 million in to the reconstruction of Assiniboia Hall, and repairs to the Henry Marshall Tory Building and the Biological Sciences Centre. The lion's share—about \$4 million—will be spent on Assiniboia Hall.

- By way of paying tribute to Alberta's 75th anniversary, author and conservationist Kerry Wood donated his papers and manuscripts to *The University of Alberta Archives*.

- Red Deer was chosen as the site of the first off-campus post RN degree program by the Faculty of Nursing. The faculty also considered Fort McMurray, Grande Prairie and St. Paul.

- During the summer and early fall Edmonton's Jewish Community Council donated \$5,000 to

assist the University in the teaching of elementary Hebrew and various individuals with a common interest in their native tongue and the Arabic culture, forwarded \$2,000 to help support a new course in elementary Arabic.

- On the legal front, the Institute of Law Research and Reform published two volumes, *Report and Draft and Commentary*, containing proposals for a new *Alberta Business Corporations Act*.

- Fort McMurray welcomed the University of Alberta Senate on 26 September. A key aspect of the two-day meeting was the presentation of briefs by residents of a city which is working to make a place for itself in Alberta's education tableau.

- At Spring and Fall Convocations, in June and November, the University recognized the contributions of notable people by the conferral of Doctor of Laws degrees. So honored were His Honour Frank Lynch-Staunton, Lieutenant-Governor of Alberta; E.A. Geddes, former Chairman of the University's Board of Governors; R.N. Dalby, Chancellor Emeritus; E.T. Salmon, a prominent ancient historian; J. Ross Vant, former Director of the University of Alberta Hospitals' Department of Obstetrics and Gynaecology; the honourable John Decore, former Chief Justice of the District Court of Alberta; B. Babin, former Principal of the Alexis Indian School at Glenevis, Alberta; L. Hockey, Director of the Nursing Research Unit at the University of Edinburgh; and H. Bancroft, the renowned organist.

- Another major gift was a number of books from the Japan Foundation. The Japanese Consul-General, Tsunetoshi Sada, made the presentation to President Horowitz on 24 October.

- A new research and treatment centre—The Western Canadian Centre for Experimental Psychotherapy—opened on campus.

- Under an agreement between the University and New Canadian Encyclopedia Publishing Ltd., the

editorial staff of the encyclopedia will be based on campus and will have access to various facilities. In return, the publisher will pay the University an annual negotiable sum of money which represents the costs of the basic services and the University will share in the net profits. The encyclopedia is scheduled to be printed in 1985.

- The University and IBM Canada sponsored an International Conference on Theory and Research in Learning Disability. Prior to the opening, it was announced that IBM had awarded \$150,000 over three years to an interdisciplinary research group at the University.

- As noted by President Horowitz at Fall Convocation, the University had strong interests in international activities. Three examples are evaluation (for the Canadian International Development Agency) of a community mental health project in Trinidad, a dairy exchange with the College

of Dairying in Hokkaido, Japan, and the development of the Faculty of Commerce at the University of Nairobi.

What's next? Perhaps, as Dr. Horowitz suggested, the establishment of University of Alberta centres in a number of countries and more reciprocal arrangements with sister universities in other countries.

- The Golden Bears won the 1980 College Bowl in convincing fashion over the University of Ottawa Gee-Gees.

- At the final Board of Governors meeting of 1980, support was accorded a resolution calling for more proportional representation in campus job classifications now stereotyped on the basis of sex.

For more information on the items listed here, or on any of the myriad activities and events at the University during the past calendar year, alumni should telephone or write to the Office of Community Relations at the address given in the *Folio/New Trail* masthead. □

Funds for the Future

Among the most important acts undertaken by the Board of Governors during 1980 was the establishment of a fund aimed at fostering research at The University of Alberta. What follows is an article reprinted from the weekly bulletin Folio (13 November 1980) for the benefit of alumni who will certainly wish to learn more about the University's efforts to supplement traditional forms of financial support. For a detailed review of the new fund's provisions, please refer to the issue of Folio mentioned above, or write to the Office of Community Relations.

At its regular monthly meeting on Friday, 7 November, the Board of Governors gave spirited approval to the establishment of a new fund to support research at this University. The fund will be titled The University of Alberta Endowment Fund for the Future

and it is based on revenue realized in the sale of University lands, in this instance on revenue generated from the sale of 47.3 acres of the Edmonton Research Station (the "Farm") to the provincial government. The sale of the Farm property, approved last March by the Governors, generated \$14.4 million for the University. It is now estimated that annual revenue from the proceeds of that sale will be in the order of \$1.25 million.

What to do with the money? An important part of the administration's thinking, which led to the proposal endorsed by the Board on 7 November, was a desire to support research and other activities of fundamental importance at the University. Such activities, however, were not to be of a type normally funded either by the government or our institution in the normal course of events. Deans, Department

Chairmen, and Directors consequently were canvassed by the administration so that as many people as possible in the academic community could offer suggestions, imaginative suggestions, as to the best use of the funds. What the Board approved, then, is the result of this community participation.

In its essential elements, the proposal may be seen as one that is creative and exciting. Certainly creative—it creates support for the Henry Marshall Tory Chairs, long ago approved in principle as the University's most prestigious

professorships. It creates also some ten to fifteen research professorships to be occupied on a sessional basis. These professorships are to be named after the University's first Dean of Graduate Studies, Arthur G. McCalla [also Dean of Agriculture and Forestry from 1951]. The funds will allow more positive support than hitherto possible for the advancement of scholarship and, among other things, will make it easier to bring to our institution visitors who are among the most renowned in their chosen fields. The proposal is exciting. Even

more exciting is the possibility that many of the programs delineated in the proposal will be quickly implemented, perhaps even before the end of the Winter Session.

Who will be the beneficiaries? For attentive observers of the University scene it will come as no surprise that the major beneficiaries will be those disciplines for which there is little in the way of external funding, the Humanities, the Social Sciences and the Fine Arts. This is not to say, however, that other disciplines will be left out in the cold. Agri-

culture and Forestry, inasmuch as the Endowment Fund for the Future is made possible by the sale of "Farm" land, will receive many benefits. And, of course, the Tory Chairs and McCalla Professorships will be wider in their application.

In sum, the proposal submitted to the Board of Governors on 7 November is one of the most innovative the University has seen for some years. The Governors and the Administration have supported their statements about the value of research with hard cash. □

Research Reporter

Researcher Hopes To Predict Avalanches

Using clues provided by such diverse sources as orbiting satellites and the growth rings of trees, Olaf Niemann is hoping to be able to predict avalanches. Not—at this stage anyhow—the exact occurrence of individual avalanches, but the likelihood of avalanches occurring in a given area.

At present Mr. Niemann, a graduate student in the Department of Geography, is concentrating on a portion of the Kananaskis region of Alberta. He is hoping to tie climatic variations to avalanche frequency. Numerous factors such as the amount of initial snowfall, extremely cold weather, high winds, chinooks, the size of snow crystal, and intense late snowfall can play a role in increasing hazard of avalanches. Mr. Niemann wants to relate these to the actual occurrence of avalanches in the past.

Unfortunately, extensive records of the climate or of avalanche occurrence in Canada's Rockies do not exist. This being the case, Mr. Niemann must engage in some detective work. First he must find evidence of past avalanche activity and then must pinpoint the date at which the avalanche occurred.

Evidence as to past avalanche activity is usually in the form of differences in vegetation growth. Over a period of years, the slopes stripped bare by avalanches will be revegetated, but a tell-tale scar remains. Mr. Niemann has been locating these scars by field observations. At the same time, he is working with the 'pictures' relayed back to Earth by the LANDSAT satellite in the hope that he can manipulate the data which it provides in such a way that will reveal the avalanche scars.

Once Mr. Niemann finds a slope where an avalanche has occurred, he becomes interested in a scar of another sort: the distinctive scar evident in the growth rings of trees on the periphery of the avalanche area. From these he can determine the year in which the avalanche occurred.

In this way, Mr. Niemann will learn the frequency of avalanche occurrence over the years. The next step will be to correlate this to the information available regarding the weather in those years.

While for the most part climate records for the Kananaskis region are sketchy, there is substantial data covering the past fifteen years in the Marmot Basin area. And this winter Mr. Niemann is making several trips to the region to visit the weather

monitoring stations which have been located on Fortress Mountain and at the height of Highway Pass on the Forestry Trunk Road.

Ecologist Studies Fireweed Worlds

"Truth," so the saying goes, "is stranger than fiction." And the sagacity of the observation is reconfirmed daily, as it is when Dr. Addicott tells of his research.

He tells of worlds occupied by populations of fantastic creatures which flourish and become extinct, and interact with other species. Much of popular science fiction is really no more fantastic than our familiar world considered from a different perspective.

John Addicott is an Associate Professor of Zoology and the worlds which he studies are individual shoots of fireweed, the herb *Epilobium angustifolium* which grows wild throughout much of western North America. The denizens of these worlds are the insects that live out their lives upon them. In particular they are ants and aphids.

It was not a special interest in insects that prompted Dr. Addicott to begin this research. What he hoped to achieve was insight into a fundamental aspect of ecology: how creatures occupy space. How do they compete and

coexist? Central to this was the concept of "patch dynamics."

While the early ecologists tended to view the world as a rather uniform place, modern day ecologists such as Dr. Addicott stress the importance of recognizing the world's spatial heterogeneity—its patchiness. The Earth's ecology can best be understood by recognizing that there are many different worlds, or habitat islands, within our world. An oasis in the desert, an island in the ocean, or a pond on the prairie is a world unto itself to many of its creatures. And so too is a shoot of fireweed to the aphids which reside upon it.

It is these fireweed worlds which Dr. Addicott chose to study. Here, populations rise and fall not in centuries but in weeks. Colonies are established and become extinct several times over the course of a summer. And here, in a relatively short time, the researcher interested in the dynamics of events within a habitat island can gain understandings that might not be secured in his lifetime through the study of larger creatures such as birds or mammals.

Dr. Addicott's studies have focussed on four species of aphids, three of which interact with ants. Viewed closely the aphids, which feed on the nutritive system of plants, are fantastic creatures. Some are winged and

Folio/New Trail Campus Supplement

service information

Coming Events

Music

SUB Theatre

12 to 14 February. 8 p.m. University of Alberta Orchestral Modern Dance Club presents "Dance Motif '81." Tickets: HUB and at the door. Telephone: 432-5602 for further information.

18 to 21 February. 8 p.m. Edmonton Separate School Board presents "Anne of Green Gables." Tickets: 9807 106 Street or telephone 429-7631.

St. Joseph's College

Monday evenings. 7 p.m. Gregorian chant choir. All welcome. St. Joseph's College Chapel. Telephone 433-1569.

Films

Civilization Series

17 February 12:30 p.m., 18 February 12 p.m. Civilization #12. (Byron, Beethoven. Romantic Disillusion.) L3 Humanities Centre.

Department of Germanic Languages

18 Februar. 19.30. "Grabentplatz" (1958). Eintritt frei. 17 Arts Building.

Exhibitions

Ring House Gallery

Until 1 March. "Tommie Gallie/In Place" a sculptural exploration of the Gallery's space. Meet the artist at the opening on 5 February at 8 p.m.

Lectures and Seminars

Departments of Biochemistry and Immunology

5 February. 2 p.m. R.S. Kerbel, Queen's University, Kingston, will present a seminar entitled "Eradication of metastases of a poorly immunogenic tumor using cytotoxic T cells generated against highly immunogenic variants." 866 Medical Sciences Building.

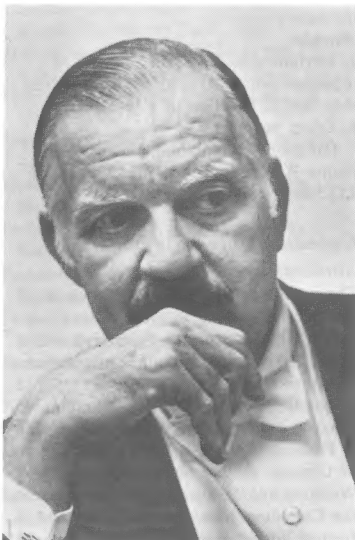
Department of Entomology

12 February. 4:30 p.m. J. Cumming

will present "Aspects involved in the classification of the eumenid wasp genus *Symmorphus* Wesmael (Hymenoptera)." Coffee at 4 p.m. 62 Athabasca Hall Annex.

Department of Physics

6 February. 2 p.m. "Physics at extremely low temperatures" will be discussed by W.P. Halperin, Northwestern University. V-125 Physics Building.



Jorge Bolet in Concert

Next Thursday, 12 February, Convocation Hall will be the destination of people with a shared avocation—classical music. At 8 p.m. Jorge Bolet, considered by many to be the greatest living Liszt pianist, will take his place at the Department of Music's newly acquired Steinway piano. And then the first of "The Nicholas Arthur Kilburn Memorial Concerts" will begin.

The concert, the first in a series of annual musical events made possible through a generous donation to the Department of Music, is dedicated to the memory of Nicholas Arthur Kilburn, one of the University's governors in the 1920s.

A department spokesman says that "pianist Jorge Bolet is an international figure in the concert world and the Department considers this to be an appropriate time to present our new Steinway piano to the University and the Edmonton musical community."

Mr. Bolet will perform works by Mendelssohn, Schumann, and Liszt. Free tickets for the concert are available from the Department of Music.

Department of Zoology

13 February. 3 p.m. "Seasonal acclimatization in cardueline finches" will be presented by W. Dawson, University of Michigan. 345 Agriculture Building. Refreshments follow in CW410 BioSciences at 4 p.m.

Social Science Dining Club

9 February. 6 p.m. "Japan as a paradox of progress" will be presented by C. Caldarella. Faculty Club. To register, please call 432-3406 by 4 p.m. on 6 February.

Division of Family Studies

11 February. 12 noon. Brown bag seminar "The function, importance, desirability, mystery of play in intimate relationships" by J. Montgomery. 814 General Services Building.

Department of Slavic Languages

13 February. 11 a.m. "Palatalization in Celtic and Slavic" with Robert Orr. 776 General Services Building.

Theoretical Physics Institute

11 February. 3:30 p.m. S. Kelland will present "The XY Model: The Ground State and Beyond."

18 February. 3:30 p.m. "Radiatively Induced Flavor Changing Neutral Higgs Boson Couplings" will be discussed by M. Wise, Harvard University. P631 Bio Sciences Building.

Department of Botany

18 February. 4 p.m. "Subfossil mosses and their use in interpreting paleoenvironments" by J. Janssens. Coffee at 3:30 p.m. M-149 Biological Sciences Building.

St. Joseph's College

Newman Centre

Understanding Catholicism

18 February. 7 p.m. to 9 p.m. "Sacraments of Initiation: Baptism and Confirmation with Sr. D. Geernaert. For further information please call 433-2275.

Department of Classics

12 February. 4 p.m. M. Cropp, University of Calgary, will speak on "Statistics and statistical method in the dating of Euripides' tragedies." 1-8 Humanities Centre.

Department of Art and Design

13 February. 2:30 p.m. Slide presentation: Lyndal Osborne (printmaking) will present and discuss her own work. 2-20 Fine Arts Building.

Department of Biochemistry

16 February. 4 p.m. R. Yount, Wash-

ington State University, will present a seminar entitled "Active site trapping: a new approach to the study of Myosin's active site." 2-27 Medical Sciences Building.

Chemistry Colloquium

16 February. 8 p.m. "Physical and biochemical studies of biological membranes" will be discussed by R. McElhaney, Department of Biochemistry. E1-60 Chemistry Building.

Department of English

19 February. 4 p.m. R.R. Wilson will present a seminar entitled "The Golden World Reshaped: Abstraction, Imagination and the Game Analogy (a Further Paradox)." Boardroom, 5-20 Humanities Centre.

Biosafety Office

A general information lecture "Biological Safety Cabinets—A Buyer's Guide" will be presented on 20 February at 11 a.m. in M-137 Biological Sciences Building and 24 February at 9:30 a.m. in 1-17c Medical Sciences Building. Please notify the Biosafety Office (1-35 Medical Sciences Building) of your intent to attend giving your name, address, telephone number and the date that you wish to attend. This information will give an idea of class size.

Radio and Television

Department of Radio and TV

7 February. 7 p.m. University Concert Hall: Bloch.

9 February. 7 p.m. Legal Maze: Prison System and Correction—Part IV.

10 February 7 p.m. Epicycle: The Trickster. Part II.

11 February. 7 p.m. Voiceprint: All programs on CKUA Radio (580AM/95FM).

Sports

Golden Bears and Pandas

7 February. 7 p.m. High School invitational swim meet. West Pool.

8 February. 12 noon. U of A invitational gymnastics. Varsity Gym.

13 and 14 February. 7 p.m. (women) 8:30 p.m. (men). Basketball vs Lethbridge. Varsity Gym.

15 February. 2 p.m. Hockey vs UBC. Varsity Arena.

Non-Credit Courses

Faculty of Extension

Advanced Workshops in Teaching English as a Second Language

Date: 14 February (Grammar);

28 February (Writing); 14 March (Pronunciation); 28 March (Oral Activities); 11 April (Conversation); 25 April (Recognizing and Correcting Errors); 9 May (Beginning ESL Students). *Time:* 9 a.m. to 12 noon. *Fee:* \$15 per workshop. *Class limit:* 25. *Telephone:* 432-2497, 432-3036.

Landlords and Tenants:

An Introduction to the Law
Date: 16 February for 2 Mondays.
Time: 7 p.m. to 10 p.m. *Fee:* \$40.
Telephone: 432-5061.

Individual Learning Projects

Date: 18 February for 4 Wednesdays.
Time: 7 p.m. to 9 p.m. *Fee:* \$10.
Class limit: 40. *Telephone:* 432-3033.
This course is offered in cooperation with the Edmonton Public Library and will be held in the Centennial Library.

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. For further information, please telephone Information Services at 432-2463 or come to 319 General Services Building.

Introduction to Computing

Course number: 408. *Date:* 9 February.
Time: 12 noon. *Fee:* \$5. *Place:* 351 General Services Building.

MTS and Editor Fundamentals

Course number: 409. *Date:* 10 and 12 February. *Time:* 12 noon. *Prerequisites:* Introduction to Computing course or equivalent working knowledge of a DECwriter terminal and MTS commands. *Fee:* \$10. *Place:* 351 General Services Building.

Efficient File Editing

Course number: 373. *Date:* 10 and 12 February. *Time:* 11 a.m. *Prerequisites:* MTS and Editor Fundamentals course and a good working knowledge of the File Editor. *Fee:* \$10. *Place:* 327 General Services Building.

Introduction to SPIRES

Course number: 283. *Date:* 9 February. *Time:* 9 a.m. *Prerequisites:* MTS and Editor Fundamentals course and the ability to use terminals and the File Editor well. *Fee:* \$5. *Place:* 328 General Services Building.

Data Preparation for Statistical Packages

Course number: 380. *Date:* 10 February. *Time:* 9:30 a.m. *Fee:* \$5. *Place:* 328 General Services Building.

An Introduction to the SPSS Control Language

Course number: 381. *Date:* 12 February. *Time:* 9 a.m. *Prerequisites:* Data Preparation for Statistical Packages is recommended. *Fee:* \$5. *Place:* 328 General Services Building.

PLATO Instructor Files and Routers

Course number: 399. *Date:* 12 February. *Time:* 9 a.m. *Prerequisites:* Introduction to PLATO course, or equivalent knowledge of PLATO and experience with PLATO groups and rostering concepts. *Fee:* \$10. *Place:* 361 General Services Building.

Notices

General Faculties Council

The next meeting of General Faculties Council will take place on Monday, 9 February 1981 at 2 p.m. in the University Hall Council Chamber. The agenda for that meeting follows:

1. Approval of the Agenda
2. Approval of the Minutes of 26 January 1981
3. Question Period
4. New Members of GFC 1981-82

Reports

5. Executive Committee Report
 - 5.1 Executive Committee Minutes of 19 January 1981
6. Report of the Board of Governors
7. Report of the Nominating Committee

New Business

8. GFC Standing Committees: Recommendations from the Executive Assistant to the President
9. Extension Faculty Council: Appointment of External Positions and Members
10. Code of Student Behavior and Power of the University to Impose Penalties Under the Criminal Code: Recommendations from the Campus Law Review Committee (CLRC) for Amending the Code
11. Degrees with Distinction (BA General, BA Special, BA Canadian Studies): Request from the Faculty of Arts
12. Academic Development Committee (ADC): Annual Report for 1980
13. Facilities Development Committee: (FDC): Annual Report for 1980
14. Report of the Committee on Committees and Procedures (Report A): Recommendations from the Executive Committee
15. Other business.

PACCR—Rural Economy

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews, the Department of Rural Economy is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment from any member of the University at large. Submissions are for the use of the Unit Review Committee and will be held in confidence by members of that committee. Submissions marked for "Unit Review Committee, Department of Rural Economy" should be sent to the

PACCR Coordinator, Ms. Florence Watters, 3-24 University Hall, before 12 February 1981.

Alberta Cactus and Succulent Organization

It is the intention of a group of cactus and succulent enthusiasts to form an organization of people with the same interest. For this purpose a meeting has been arranged on Monday, 9 February 1981 at 8 p.m. in the Muttart Conservatory, 98 Avenue - 96 Street, Edmonton.

All people interested are invited to attend this meeting and provide their support. The founding committee consists of the following persons: John Helder; Rudi Kroon, E. Reinhold; Ed Toop; Roger Vick; Jean Wieprecht.

This committee will initiate the founding meeting, but it is suggested that other potential members will form the new executive.

Agenda

1. Introduction; 2. Form and aim of organization; 3. Affiliation; 4. Membership fee; 5. Election of Executives; 6. Other business.

For more information, please telephone R. Kroon at 467-5394 (home) or 432-5466 (work).

Canadian University Nursing Students Association

The annual conference of CUNSA is currently underway in the Students' Union Building (4 to 8 February) with about 560 nursing students in attendance. The theme of the conference is "Sexuality in a Professional Nursing Focus." Guest speakers include J. Flaherty, Principal Nursing Officer of Canada, Department of Health and Welfare; and S. Stinson, President of the Canadian Nurses Association. For further information about the conference please call 432-7396.

CITL Seminars in the Improvement of University Teaching

The GFC Committee for the Improvement of Teaching and Learning has organized a program of workshops and seminars on improving university teaching, with the first presentation on 17 February and the last on 18 March. A schedule follows:

1. "How to use well-defined teaching objectives to improve teaching," with A. Dean (Industrial and Vocational Education). 17 February.
2. "An introduction to individualized instruction in university teaching," with S. Therrien (Elementary Education). 18 February.
3. "Use of audio-visual media for more effective teaching," with E. Rankin and D. Engle (Secondary Education). 19 February.
4. "Some reservations on the technologizing of instruction—a humanistic approach to university teaching," with J. Osborne (Educational Psychology). 3 March.

5. "What makes students learn—a look at motivation," with W. Hague (Educational Psychology). 4 March.
6. "How students learn—implications for the university teacher," with R. Short (Educational Psychology). 5 March.
7. "Lectures and how to improve them," with H. Janzen (Educational Psychology). 9 March.
8. "Evaluation of teaching—how to use it to improve teaching," with A. Konrad (Educational Administration). 12 March.
9. "An introduction to PLATO—computer-assisted instruction programs at The University of Alberta," with M. Szabo (Computing Services). 18 March.

All seminars, with the exception of No. 3 which will begin at 1 p.m., will last from 2 p.m. to 4:30 p.m. Each will be limited to twenty participants and no fee will be levied for attendance. For registration, please contact Gary Kelly, Chairman CITL, in the Department of English. For more detailed information about a particular seminar, please refer to the individual presenter.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

Vickers, Cooke Troughton Simms microscopes to be tendered through Alberta Government Services Surplus Sales, 12115 Fort Road, beginning 3 February 1981. For further information please contact AGS at 427-3482 or Bonnie O'Dwyer at 432-3208.

Positions Vacant

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 30 January 1981.

Clerk Typist II (\$830.15-\$991.42)—Housing and Food Services; Printing Services; Secondary Education
Financial Records Clerk (\$830.15-\$991.42)—Printing
Purchasing Clerk I (\$861.22-\$1,030.83)—Purchasing
Clerk Steno II (\$861.22-\$1,030.83)—Secondary Education; Industrial and Vocational Education; Audiovisual Media Centre; Animal Science; Technical Services
Senior Clerk (\$893.47-\$1,069.05)—Parking Services
Senior Financial Records Clerk

(\$922.13-\$1,109.66)—Rural Economy
Data Entry Operator I (\$922.13-
\$1,109.66)—Administrative Services
Clerk Typist III (\$922.13-\$1,109.66)—
Physical Therapy (term to May 81);
Soil Science; Pharmacy (Trust);
Department of Medicine
Purchasing Clerk II (\$922.13-\$1,109.66)
—Purchasing; Physical Plant
Clerk Steno III (\$479.58-\$578.72)—
Geology (½ time)
Clerk Steno III (\$959.16-\$1,157.44)—
Economics; Computing Science
Admission Records Trainee (\$959.16-
\$1,205.22)—Office of the Registrar
Medical Steno (\$1,030.83-\$1,257.77)—
Pediatrics; Medicine
Medical Steno (\$515.42-\$628.89)—
Medicine (Part-time)
Library Assistant II (\$1,069.05-
\$1,309.14)—Extension—Legal Resource
Centre
Secretary (\$1,069.05-\$1,309.14)—
Stomatology; Dean of Dentistry;
Restorative Dentistry; Business
Administration and Commerce
Secretary (\$427.62-\$523.66)—Pharma-
cology (2 days week)
Administrative Clerk (\$1,069.05-
\$1,309.14)—Surgical Medical
Research Institute:
Systems Control Clerk II (\$1,069.05-
\$1,309.14)—Office of the Comptroller
Medical Records Librarian I (\$1,069.05-
\$1,309.14)—Cardiology (Trust/Term
to Aug. '81)
Data Entry Supervisor (\$1,157.44-
\$1,423.81)—Computing Services
Departmental Secretary (\$1,205.22-
\$1,484.74)—Dean of Medicine
Senior Accounts Clerk (\$1,205.22-
\$1,484.74)—Office of the Comptroller
Computer Assistant I (\$861.22-
\$1,030.83)—Computing Services
Laboratory Assistant II (\$861.22-
\$1,030.83)—Provincial Laboratory
Building Services Worker II (\$959.16-
\$1,157.44)—Physical Plant (Building
Services)
Computer Assistant II (\$991.42-
\$1,205.22)—Computing Services
Technician I (\$1,069.05-\$1,309.14)—
Soil Science; Computing Services
Civil Engineering Technician I
(\$1,069.05-\$1,309.14)—Civil
Engineering
Technician I/Technologist I (\$1,069.05-
\$1,484.74)—Pharmacology (Trust)
Technician I/II (\$1,069.05-\$1,484.74)—
Mineral Engineering (Trust)
Technician I/Technologist I (\$1,069.05-

\$1,484.74)—Slowpoke Reactor
Facility (Trust/Term)
Draftsman I (\$1,109.66-\$1,365.29)—
Design and Construction
Instrument Technician I (\$1,109.66-
\$1,365.29)—Chemistry (Trust)
Computer Operator I (\$1,157.44-
\$1,423.81)—Computing Services
Engineering Technologist I (\$1,157.44-
\$1,423.81)—Physical Plant; Physical
Plant (Energy Management (Term);
Physical Plant (Energy Management)
Building Services Worker IV (\$1,157.44-
\$1,423.81)—Physical Plant (Building
Services)
Partsman (\$1,157.44-\$1,423.81)—
Physical Plant (Vehicle Pool)
Security Officer I (\$1,205.22-\$1,484.74)
—Campus Security
Laboratory Technologist I (\$1,205.22-
\$1,484.74)—Provincial Laboratory
Technician II (\$1,205.22-\$1,484.74)—
Pathology
Chemical Technologist I (\$1,205.22-
\$1,484.74)—Home Economics
Technician II/III (\$1,205.22-\$1,690.17)
—Biomedical Engineering (Trust)
Technologist I/II (\$1,205.22-\$1,690.17)
—Pediatrics (Trust)
Research Assistant (\$1,309.14-\$1,617.07)
—Cardiology
Electronics Technician II/III (\$1,309.14-
\$1,843.07)—Physics
Technologist II (\$1,365.14-\$1,690.17)—
Biosafety Committee
Technologist II (\$1,365.14-\$1,690.17)—
Zoology
Technician III (\$1,365.14-\$1,690.17)
Biomedical Engineering (Trust)
Bacteriology Technologist II (\$1,365.29-
\$1,690.17)—Home Economics
Biology Technician III (\$1,365.29-
\$1,690.17)—Genetics
Biology Technologist II (\$1,365.29-
\$1,690.17)—Genetics
Administrative Assistant (\$1,365.29-
\$1,690.17)—Housing and Food
Services
Programmer/Analyst II (\$1,484.74-
\$1,843.07)—Office of Administrative
Systems;
Programmer/Analyst II (\$1,484.74-
\$1,843.07)—Animal Science (Trust)
Engineering Technologist III (\$1,484.74-
\$1,843.07)—Physical Plant (Energy
Management);
Electronics Technician III (\$1,484.74-
\$1,843.07)—Psychology
Ranch Manager I (\$1,550.43-\$1,924.31)
—Animal Science
Fabricator III (\$1,617.33-\$2,101.07)—

Chemistry
Engineering Technologist IV (\$1,690.17-
\$2,101.07)—Physical Plant (Energy
Management)
Programmer/Analyst III (\$1,763.03-
\$2,195.45)—Computing Services
(2 positions)
Stores Manager (\$2,009.10-\$2,513.18)—
Central Stores
Programmer/Analyst IV (\$2,101.07-
\$2,629.04)—Office of Administrative
Systems

Controls Fitter (\$2,312.27/month)—
Physical Plant Maintenance

*The following is a list of currently
available positions in the University of
Alberta Libraries. The bulletin board in
the Cameron Library, Room 512, should
be consulted for further information as
to availability and position requirements.*
Library Assistant I (\$959.16-\$1,157.44)—
Fines; Special Collections

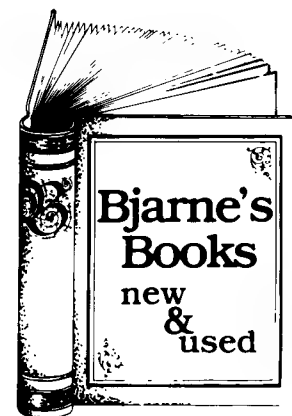
Advertisements

*Advertisements must reach the Editor
by 3 p.m. on the Thursday prior to
publication date which date
also serves as the deadline for
cancellation of advertisements. The cost
of placing advertisements is 30 cents per
word with no discount for subsequent
insertions. There are no refunds. There
is a maximum limit of 30 words and a
minimum charge of \$1.50. Contributors'
corrections will be assessed at \$1.50
for each line in which an alteration
is made.*

Accommodations available

For sale—Hearthstone. Executive town-
home backing onto greenbelt. Ten
minutes from University. DeAnna
Larson 481-0936. Spencer Real
Estate 436-5250.
For rent—Modern three bedroom
bungalow, partially furnished, couple
or family. no pets, non-smokers.
Available 15 July 1981 to 1 August
1982. Petrolia. 435-6298.
For rent—Older, three bedroom house,
near University. Fridge, stove, garage.
\$550. 432-7941 after 9 p.m.
For rent—Belgravia. Large, three
bedroom bungalow, two fireplaces,
six appliances, double garage.
Professional family, one year lease.

Eva Kopecka 434-2451, bus. 436-5250.
For sale—Belgravia. New listing. 1,300
sq. ft., semi-bungalow. Completely
developed basement, two bathrooms,
50'x132' lot. Beautiful mature land-
scaping. Call Eva res. 437-5603, bus.
436-5250. Spencer Real Estate.
Mature female wanted to share apart-
ment with same. South Side. \$200.
433-1922 (evenings).
For sale—Walk to University. 1,520
sq. ft. bungalow with separate
entrance to developed basement.
49.5'x182' lot, double garage, plus
many extras. Call Liz Crockford
434-0555, 436-5250 Spencer Real
Estate.
For rent—Two bedroom, modern apart-

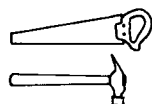


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DANCE MOTIF '81



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8:00 p.m. - Students' Union Theatre
University of Alberta Campus
Adults \$4.50 Students & Children \$3.50
Tickets HUB & Orchestras members
Information 432-5607

ment, stove, fridge, washer, dryer, parking. 86 Ave. - 111 St. No pets. Responsible person(s) only. 436-1897 evenings, weekend.

For sale—Blue Quill. Four bedroom, two storey by Labrenz. Centre hall plan, family dining room, oak panelled family room. Excellent financing. Reina or Debra, Royal Trust 435-4869, 436-2556, 463-3657.

For rent—Windsor Park. Three bedroom, fully furnished, or exchange with U.K. visitor. 1 July 1981 to 31 August 1982. References and interview required. Phone 439-3092.

Accommodations wanted

University of Lethbridge faculty member on study leave at Edmonton requires furnished three bedroom home for twelve month period starting approximately 1 July 1981. Keith McCurdy, 2217 26 St. South, Lethbridge, T1K 3M4. 328-8774.

Goods for sale

Antiques: Period furniture, china,

glass, silver, brass, cloisonné, estate jewellery, spoons, objects d'art, collectibles. 1 - 4:30 p.m. Mary Goulden Antiques. 10437A 142 Street. 453-2008. Ping-pong table \$10. 436-1448.

Six Ikea modular chairs, pine, foam cushions, sand colored linen, excellent condition, \$550. English antique sideboard, 60"x40", two doors, two drawers. Beautiful, \$400. 452-4384.

Services

Expert typing—thesis, etc. 455-0641. Donnic Typing Services Ltd. Specializing in word processing. 301A Whyte Avenue Bldg. 10454 Whyte Avenue. 432-1419.

Kozak Business Services: Complete typing service available. Student discount. #305, 9924 106 Street. 423-3068, 483-6075.

Painting, interior/exterior. Calico Decorators. Quality workmanship. References. Free estimates. 436-6239. Singing teacher, Eileen Turner. 439-4661. Typing service—Research papers, theses, term papers, etc. 435-5224.

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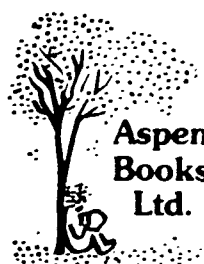
Typing on word processor. Call Darlene. 452-1074.

Tailoring. Men's and women's alterations. Tim Liu. 487-3053. 8903 180 St. School of the French Alliance, offering classes Mondays and Wednesdays 4:30-5:30 p.m. (Children) and 6:30-8 p.m. (adults) starting 9 February.

Registration (as soon as possible) or further information 433-9121, evenings preferably.

Babysitter required for four month old in Belgravia. Fulltime. References desirable. Phone 436-8347.

McKernan School will hold its annual pie social Tuesday, 24 February from 6 to 8:30 p.m. Classroom displays will be featured. Tickets available in advance from school or at door.



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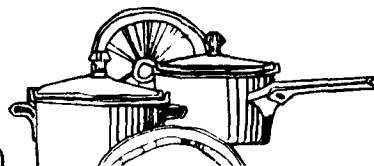
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FRENCH EDUCATION UNIVERSITY AREA

McKernan Elementary-Junior High School, 11330 - 76 Avenue, announces that it will offer French kindergarten, and grades one, two and three in September 1981.

The classrooms and teachers may be visited at the school's annual Pie Social 6:00-8:30 p.m. 24 February.

For information about the French program and registration, please call Mr. Lummis at 435-4163.

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some are not, and some develop wings when the nutrition available from the plant upon which they are resident is poor and fly off in search of a more abundant world. During the warmth of summer the aphids reproduce rapidly. Reproduction is asexual; there are no males in the population and the females give live birth. As winter approaches, males begin to appear and an alternate form of reproduction occurs. Breeding takes place and the female lays eggs which are capable of withstanding the rigors of winter.

From the nutritive system of the fireweed the aphids—sometimes known as plant lice—obtain the basics of their sustenance: carbohydrates and nitrogen. However, the ratio of carbohydrates to nitrogen extracted from the plant is such that in order to meet their nitrogen requirements the aphids ingest an excess of carbohydrates, mostly sugars. These pass through the aphid's digestive system and are excreted. It is this supply of "honeydew" that attracts the ants.

The ants come to milk the aphids of their honeydew and stay to tend them. This does not prove oppressive to the aphids, though. In fact, aphids tended by ants grow and mature faster. And the ants deter the predators and parasitoids that commonly plague the aphids.

Aphids commonly fall prey to the larvae of insects such as the ladybird beetle, or are devoured from within by the small larvae wasps. Inside an individual aphid a single wasp will hatch from its egg and then consume its host before reaching adulthood.

When two species interact in such a way that the effects on both are positive, such as is the case with the ants and aphids, ecologists refer to it as mutualism. When Dr. Addicott began his investigations into the dynamics of the worlds provided by the fireweed shoots, he knew that the mutualism of the ants and aphids would be involved. He didn't suspect, though, the interest it would hold for him. From something to be considered only as an aspect of patch dynamics, mutualism has come to be Dr.

Addicott's prime research interest.

As a result, Dr. Addicott is planning to begin study of the mutualism of the yucca plant and the moth which plays a principal role in its pollination. The attraction here from a research viewpoint is that the costs and benefits of the mutualism can be measured in the same currency. The yucca is completely dependent on the moth for seed development, but the cost to the plant is also seeds, which the larvae of the moth consume.

Arctic Clothing Studied

During his arctic expeditions, Robert Peary, the man recognized as the first to reach the North Pole, took entire Inuit families on board his ships to act as seamstresses.

It was recognition of the fact that when it came to arctic dress the natives knew best. Barbara Schweger is finding that sometimes this was a lesson that had to be learned the hard way. A graduate student Mrs. Schweger is studying the clothing worn by the non-natives who ventured into the arctic prior to 1920, be they explorers, such as the American Peary; the men of the British Royal Navy; whalers; geologists; geographers; or other scientists. To make her study manageable, she is confining it to those who were English-speaking, and she is concentrating on footwear.

From her own experience of the North and its people, Mrs. Schweger knows how susceptible the feet are to frostbite and that occasionally amputation is necessary. And it was partly this that led to her interest in pursuing the study.

Although her background is in anthropology, Mrs. Schweger is currently working toward a master's degree in the Faculty of Home Economics. She says that in the past research in the area of clothing has largely been concerned with fashion, but occupational clothing is something of an up-and-coming field in home economics. It is within this context that her work is taking

place, and she anticipates that, once she has established this bit of historical background, she will move on to research related to other topics in arctic outfitting.

In the meantime, she is busy sifting through the findings of this summer, when with the assistance of a grant from the Boreal Institute for Northern Studies, she visited a number of museums and archives in Britain and North America. In Britain these included the Scott Polar Institute, and Central Museum in Northampton. The latter is not well known but has a keeper of shoes, who has an encyclopedic knowledge of the history of British shoe construction.

On this continent, Mrs. Schweger visited various east coast whaling museums, as well as the Stephan-

son Collection located in Dartmouth, and Bowdoin College in Maine, where almost all of the archives of Robert Peary are housed. Where actual clothing wasn't available for scrutiny, she studied paintings, photographs, and written material.

Among some of the more interesting material she came across were moccasins largely made of old shirt sleeves, leather shoes with immense cork soles that dated back to 1870, and blanket wrappers made from Hudson's Bay blankets which were worn inside imitation mukluks. Mrs. Schweger says that generally the men taking part in expeditions were responsible for the repair and, if necessary, the manufacture of their own clothing, and, as one would expect, expertise varied. □

Letters

■ Last fall the Department of English was given the use, for duplication, of a large collection of cassettes and reels held by Mrs. H. V. Weekes. The collection contains roughly equal sections of Shakesperiana, World Drama, and Canadiana. It was developed over a period of twenty years by the late Prof. H.V. Weekes, an alumnus of The University of Alberta (1948), while he taught in the English Department of The University of Saskatchewan, Saskatoon.

As time and money permit, the many items not in our own collection are being duplicated; some of those added this fall are already in use.

The Department of English wishes to acknowledge with sincere thanks this generous and valuable contribution to the University.

*H.A. Hargreaves,
for R.F. Anderson, Professor and
Chairman, Department of English*

■ I am writing to you to ask a favor. I have just completed a giant book of miscellany (*The ULTIMATE Bathroom Book*, to

be published by Frederick Fell, Inc., New York, in the Fall of 1981) and my next project is tentatively entitled *The (50) Greatest College Pranks of All Time*. I feel the best way to acquire the material I'll need for this book is to solicit it through alumni journals—and to make it worth the contributors' while—hence, this request:

Would it be possible for you to run a small note in a forthcoming issue to inform your school's alumni of this proposal, requesting that anyone who has a worthy candidate send it along to me, or otherwise get in touch? It would be extraordinarily appreciated! Naturally, I will pay those whose contributions are used upon publication; and, depending on the success of the book, the payment per contribution could easily exceed \$100. Confidentiality would also be ensured, especially in those instances where there might be questions of impropriety to the point of "punishable offense."

*Charles G. McLeavy,
303 S. Chester Road,
Swarthmore, PA 19081*

University Orientation Days

The table is set for University Orientation Days on 26 and 27 February. Numerous Faculties and Departments of the University of Alberta will offer lecture-style presentations and/or displays for the enlightenment of Alberta high school students. The general public is also welcome to come on campus. The displays, which promise to attract both the eye and the intellect, include as sponsors the Department of Zoology, Meteorology, Physics, Geology and Microbiology and the Faculties of Arts, Engi-

neering, Agriculture and Forestry and Faculté Saint-Jean. All displays are open to the public from 9 a.m. to 4 p.m. each day.

Approximately 10,000 people are expected to visit Orientation Days which is being promoted in part by the invitation to "Come, Explore Another World."

The event was organized by the Admissions Policy, Evaluation and Liaison Division (APEL) of the Office of the Registrar. For further information phone 432-5088. □

coming events

Music

Sundays at 3

15 March. 3 p.m. An organ recital by William Wright. St. Joseph's Cathedral, 10044 113 Street. For ticket information please call 455-2448.

Alberta College

30 March. 8 p.m. Dennis Prime, clarinet. Provincial Museum. Admission free.

Edmonton Symphony Orchestra

15 March. "A Surprise for Spring" with Tom Rolston, conductor. For further information please call 439-2091. 20 and 21 March. Yuval Zaliouk, conductor, and Eugene Istomin, piano. "Family Series"

Exhibitions

Edmonton Public Library

During March. Recent drawings by David Vereschagin will be exhibited. 5 to 31 March. An exhibition of black and white photographs by Dennis Wall.

Provincial Museum

Until 20 March. "Birds of Prey." Paintings by Louis Agassiz Fuertes. Feature Gallery #1.

Latitude 53 Society of Artists

25 February to 5 March. Drawings, paintings and painted sculpture by Leslie Sharpe.

18 March to 5 April. Photography by Christopher Rainer.

Ring House Gallery

5 February to 11 March. "Tommie Gallie/In Place."

19 February to 22 March. "Rhythms and Reflections: contemporary tapestries by Carla Costuros."

Films

Edmonton Film Society

9 March. "Best Boy" Academy Award Best Documentary US 1979.

23 March. "Wise Blood" (1980).

Above films will be presented at 8 p.m. in SUB Theatre.

2 March. "Kiss Me Deadly" (1955).

4 March. "I'm All Right, Jack" (1960).

11 March. "The Rebel" (1961).

16 March. "I Was A Male War Bride" (1949).

Above films will be presented at 8 p.m. in Tory Lecture Theatre.

Theatre

Citadel Theatre

10 February to 8 March. "The Miser" by Moliere.

18 March. "Grease." A joint production by the Citadel Theatre and the Manitoba Theatre Centre.

24 February to 15 March. "A Day In The Life Of Joe Egg."

24 March to 12 April. "The Hollow Crown."

Studio Theatre

12 March to 5 April. "A Special Attraction" in collaboration with Northern Light Theatre.

Théâtre français d'Edmonton

13 to 15 and 20 to 22 March. "Bernadette et Juliette" (Ou la vie, c'est comme la vaisselle, c'est toujours à recommencer).

Homecoming '80



Shattering the PM's Record. In the late sixties, Prime Minister Trudeau, '68 LLD, set a ceremonial intercollegiate football "kickoff" record. He booted the ball 40 yards. At last year's Fall Homecoming W. Dave Usher, '49 BSc(Eng), president of the Alumni Association, with a good deal of determination and a trailing breeze, hoofed the ceremonial pigskin 45 yards. A new record.



"When All the World Was Burned." Although it was a fine Saturday afternoon for intercollegiate football a number of graduates and guests gravitated to the cosy confines of the Rutherford Galleria for afternoon tea. There was a re-dedication of the Students' Union mural "When All The World Was Burned." Special guests of the Alumni Association for the occasion were artist H.G. Glyde and Dr. Helen Beny Gibson, '67 LLD, who commissioned the mural in 1952.



The Golden Graduates. The year 1930 was certainly vintage and for the returning golden graduates there was a good deal of catching up to do. Wearing their mortar boards with aplomb are Francis E.L. Priestley, '30 BA (left) and Hugh Whitney Morrison, '30 BA, Rhodes Scholar, and spokesman for his classmates at the closing banquet ceremonies.



A Trio of Diamonds. A special lustre was accorded Alumni Homecoming with the presence of three diamond (class of 1920) graduates. Moving to centre stage to accept a special memento from Chancellor Jean Forest is His Honor Justice E.W. Kane, '20 BA.



Golden Mementos. Some 45 members of the golden class of 1930 attended the Homecoming Banquet and Ball in October. Following dinner, each was invited to receive a gold memento from President Horowitz. One of the illustrious number was Wilber Bowker, '30 BA (right), former Dean of Law.



A Gift to Alma Mater. There were gifts from afar from a grateful graduate this past Homecoming. They took the shape of a brace of striking Japanese lanterns shipped from Nagoya, Japan, to be located at the University's Devonian Botanic Garden.

Seen accepting the handsome offering is University President Myer Horowitz (right). The scene was a presentation ceremony and tea at the Botanic Garden which featured donor and gold graduate Dr. Yuichi Kurimoto, '30 BA, '64 LLD, and Mrs. Shizu Kurimoto, in ceremonial dress. Dr. Kurimoto, who spent his residency in St. Stephen's College while an undergraduate, was the first member of his race to graduate from The University of Alberta. He is currently president of his own institution of post-secondary education, Nagoya University of Commerce and Administration.

Alumni Opinions Invited

Recently the Senate of The University of Alberta established a Commission to enquire into the nature, purpose, or purposes and functions of a University, and in particular, The University of Alberta. The Senate believes that this can be done by looking at the function of a University in two ways: what people believe a university ought to do, and what people perceive universities are doing. Thus, a meaningful comparison can be made of expectations and perception of the purpose of a university.

It is one of the roles of Senate to reflect the view of the general public and the University community. In order to do this, written alumni opinions would be invaluable to the Commission. Submissions should be mailed to: The Commission on University Purpose, The Senate Office, The University of Alberta, 150 Athabasca Hall, Edmonton, Alberta T6G 2E8.

Please indicate in your submission if you would be interested in a public form in your area, sponsored by the Commission. ☐

On Campus Privileges for Alumni

Privilege Cards

Full on-campus swimming privileges for alumni and their families are extended at the University's Physical Education and Recreation Centre. Privilege cards for 1981-82 will go on sale shortly at the Alumni Office, 430 Athabasca Hall, Edmonton T6G 2E8 (phone 432-3224).

Towels and lockers (for adults only) are available from the equipment room for a small sum. Indoor and outdoor jogging, and weight lifting room (adults only) are free with privilege cards. Building hours for the Physical Education and Recreation Centre are: (Monday to Friday) 7:30 a.m. to 10 p.m. (Saturday) 8 a.m. to 5 p.m., (Sunday) 10 a.m. to 5 p.m. (Statutory holidays closed).

Library

Alumni enjoy certain privileges. They may enter and use library materials. Borrowing privileges are permitted to members of the Alumni Association with demonstrable research needs. Arrangements for borrowing privileges should be discussed with the head librarian's secretary (432-3790), fifth floor, Cameron Library.

The Branches



Ottawa. Eastern Canadian alumni branch visits were initiated last Fall in the nation's capital. Two long-time stalwarts of the Ottawa unit were captured in conversation at the Pine View Golf Club, Mrs. Louise Estwick, '49 HEc, and John Aitken, '42 BSc.



Montreal. There was a warm alumni "happening" when President and Mrs. Horowitz and other special University guests gathered with alumni at "Hudson Heights" in October. Genial hosts were Don, '49 BEd and Beth Duff, '48 BEd, (left) seen sharing pleasantries with Germaine and George Raitt, '40 BSc(Eng).



Toronto. The afternoon alumni branch at the Royal York was replete with "candida." There was obvious rapport between Fred Heath, '38 BSc(Eng) (right) making a point with Dave Usher, '49 BSc(Eng), president of the General Alumni Association.



Toronto. A lady president guides the destiny of the Toronto branch in 1980-81. Joan Townend, '56 Nu and her husband Ken, '55 BSc(Eng) beam confidently into the future.

alumni notes

32 George V. Haythorne, MA, returned to Canada last year after five highly enjoyable and eventful years in Botswana. Under CIDA contract and with substantial assistance from CIDA, The Ford Foundation and the Norwegian Government, he served as Founding Director of the Institute of Development Management of Botswana, Lesotho and Swaziland. He's now an advisor to CIDA on a new Management for Change Program.

33 George W. Watts, MD, is psychiatrist retired from the state of New York.

36 A professor of mining engineering, Thomas H. Patching, BSc(Eng), is retiring



this year after a distinguished career in industry and on campus.

39 Classmates John A. Sturdy, MD, and John Brian Ringwood, MD, were recently presented with senior memberships in the Canadian Medical Association.

41 Walter L. Dunkley, MSc, has been inducted into the Olds College Hall of Fame.

42 At an annual meeting of the Canadian Medical Association Margaret M. Hutton, MD, was presented with a senior membership.

43 The federal government should have jurisdiction over planning and development of energy resources as a means of countering pending shortages says a study released recently by Bruce Willson, BSc(Eng), former president of Northwestern Utilities Ltd., Edmonton; Union Gas Ltd., Ontario; and Canadian Bechtel Ltd.

46 After a long and distinguished association with the University extending over a period of 40 years, Don Quon, MSc, has retired from his position as professor of Chemical Engineering. A central focus of his research and teaching has been to strengthen the use of mathematics and computers as tools to assist with the analysis of complex engineering problems. Dr. Quon is continuing his association with the University as

Professor Emeritus and serving as special lecturer for his timely course on energy resource development.

48 Mavin Seale, BSc(Ag), former head of the University of Manitoba's department of animal science, has been appointed associate dean of agriculture and director of the Glenlea Research Station, an agricultural research institute on campus.

Joseph John Stratton, LLB, was sworn in recently as a justice in the Court of Queen's Bench.

49 W.R.N. Blair, MA, head of the department of psychology, University of Calgary, officially retired in June. However, he was persuaded to remain at the University as interim director of Student Services for six months pending action taken as the result of the Task Force report on Student Personnel Services.

The Association of Canadian Medical Colleges has elected D.F. Cameron, MD, dean of

medicine, University of Alberta, as its president for 1980-81.

51 *Arnold P. Blakey, LLB*, was sworn in recently as a provincial judge and found the day "rather devastating."

Elizabeth (Blackburn) Mullen, BSc(Nu), is now serving as president of the YWCA, Edmonton.

Albert Chase, BSc(Eng), is sales manager, Completion Services Division, Schlumberger of Canada.

52 *P. "Pat" Purcell, BSc*, is chief geologist, Canadian Petroleum, Toronto. Prior to his current appointment, Purcell was head of The Petroleum Geology Subdivision, Geological Survey of Canada, Dartmouth, N.S.

Bob Hill, BSc(Ag), is chairman, plant science department, Olds College.

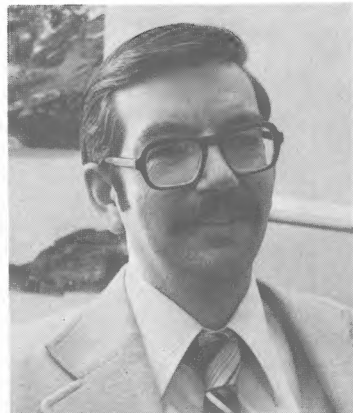
53 *John Jenkins, BSc(Eng)*, is a member of the National Energy Board.

The *David McDonald, BA*, celebrated and intensive probe of the Royal Canadian Mounted Police spycatcher service is expected to wind down early in the New Year.

Ed D. Stack, LLB, has been appointed to the board of directors, Grant MacEwan Community College, Edmonton.

54 *Flora Allison, BSc(Nu)*, has been named to the Cavanagh Council Commission, examining the social welfare act.

There is a bit of Sherlock Holmes in *Jack W. Fair, MD*. The *Folio/New Trail* (August 1980 issue) alluded to a "water fight at Athabasca." Jack was of a mind "a group of us lived in the corner on the second floor of Athabasca Hall. They incuded *Don Phillips, '49 BSc*, *Don Brundage, '48 BA*, *Bruce Hatfield, '53 MD*, *Dick Sherbaniuk, '56 MA*, *Bob Mortimer, '49 BSc*, and myself. . . . We are sure that Don Phillips is on the far right with the tipped waste paper basket half full of water. We think that Bob Mortimer's face is the one at far left of the picture. We are issuing an



A.S. Imrie, M.Sc. '67

invitation for someone to identify the other two characters."

56 *Barbara (Hargrave) Wilkin-son, BSc(Nu)*, is serving on the Northern Alberta Development Council, 1980-81 term.

60 *Kenneth A. Hamman, BSc(Eng)*, is western region vice-president, Cumming-Cockburn & Associates Limited.

Murdith McLean, BA, presided recently over his first Convocation as the warden of St. John's College, University of Manitoba. Rev. Dr. McLean was the Anglican chaplain at The University of Alberta from 1964 to 1969.

John C. Ramsey, BSc(Eng), is a member, Grant MacEwan Community College board of directors, Edmonton.

63 *Robert B. Church, MSc*, geneticist, biologist, and head, division of medical biochemistry, University of Calgary, has been appointed to the Natural Sciences and Engineering Research Council.

James L. McLellan, BEd, has completed a doctorate in educational administration, Brigham Young University. He is presently principal, Sir Winston Churchill High School, Calgary.

66 *Kiyoji Oikawa, BSc(Pharm)* is operating his own drug store in Redcliff, Alberta. It's called "Broadway Pharmacy," and according to wife *Debbie, '72 BSc(Pharm)*, "so far we are enjoying having our own business



J. DeJong, PhD '71

—a lot different than working for someone else."

67 *A.S. Imrie, MSc*, is supervisor, geology section, Hydroelectric Generation Projects Division, B.C. Hydro, Vancouver. Mr. Imrie was the co-recipient of the Canadian Rock Mechanics Group gold medal award in 1979 for the best Canadian paper on applied rock mechanics.

Peter J. Portlock, BA, has recently left the Canadian Forces to become executive director, Canadian Amateur Swimming Association, (Alberta Section), St. Albert.

Alan Bleviss, BA, is president, Pine Apple Sounds Productions, Inc., New York.

68 *Peter J. Atherton, PhD*, has been reappointed Dean of the College of Education, Brock University, St. Catharines, Ontario. This is for a second term effective July 1981.

69 *Denis Kennedy, BSc(Ag)*, is chairman of the new department, agricultural production, Olds College.

70 *A.R. Piplapure, MSc*, is operations manager, Indicos Computer Services, Bombay, India.

71 *Jan DeJong, PhD*, has been appointed vice-president, advanced technology, with responsibility for product development and special engineering services, CanOcean Resources Ltd., New Westminster, B.C.

72 *Lawrence J. Nestman, BEd*, is professor, school of public administration, Dalhousie University. He will be developing and directing a two-year master's program in health services administration which will begin offering formal classes in the 1981-82 academic year.

Jack Kane, LLB, has been appointed a public member to the board of directors, Alberta Educational Communications Corporation (ACCESS). ACCESS serves as a framework within which broadcasting and production of educational programs can take place. It operates radio station CKUA, ACCESS Television North and ACCESS Television South.

74 *Kenneth Randall Sutley, BComm*, has been admitted to partnership, Yaremchuk and Annichiarico, chartered accountants, Edmonton.

78 *Phil Matkin, LLB*, is one of four Cardston businessmen pushing for western Canada independence who have started yet another independence organization. They are seeking support for a provincial organization that would field candidates in the next provincial election.

79 *Rod Evans, MEd*, principal of Grande Cache High School, and *Errol Whelan, MEd*, principal of Pugwash District High School, Pugwash, N.S., recently completed a student exchange. The Grande Cache students visited Pugwash in May 1980. The Pugwash students visited Grande Cache in October of the same year. Plans for the exchange were formalized when Mr. Evans and Mr. Whelan attended Fall Convocation in 1979.

In Memoriam

Morris Weinlos, '28 MD
Ernest M. Petit, '31 BA
William Foss Stuart, '37 DDS
Donna (Gerlock) Hunter, '64 HEC
Roger William Soderstrom, '75 MA
Georges Bugnet, '78 LLD

Life Insurance for Alumni

The University of Alberta Alumni Association is pleased to announce their endorsement of an association group life insurance program. After careful study and comparison of numerous proposals, the plan was awarded to North American Life Assurance Company, a company with over thirty years' experience in servicing association group life plans. Some of the over fifty associations who endorse a North American Life program are: The Canadian Council of Professional Engineers; The Canadian Veterinary Medical Association; and The Canadian Bar Association.

The program that has been designed for Alumni Association members comprises Term Life, Dependents' Life and Accidental Death and Dismemberment Insurance—an excellent package of benefits. With some careful thought about your family's needs, the plan can be used to provide you with good basic coverage—coverage which will assure you that, should anything happen to you, your family will immediately have an adequate amount of cash at their disposal and that, in years to come, they will be able to maintain the lifestyle to which they have become accustomed.

Under the Alumni Plan, members are eligible to apply for up to \$200,000 of Term Life Insurance at very economical rates. For example, if you are under thirty years of age, the annual premium for \$25,000 of insurance is only \$36.00 for males and \$27.00 for females. That is less than \$1.50 per thousand

dollars coverage. The rates increase as you grow older. This means that you only pay the premium appropriate to your age and do not subsidize older participants.

With so many families now relying on income from both spouses, insurance coverage on your partner is no longer a luxury but a vital necessity. The Dependents' Life benefit with the Alumni Plan offers your spouse the opportunity to apply for up to \$100,000 of Term Insurance at the same low rates. Dependent Children's coverage is also available, providing you with \$5,000 on each of your children for a single low premium, of only \$14.00 per year.

- The Alumni Plan is completely portable. Unlike the group insurance you may have with your present employer, your coverage remains in force no matter how many times you may change your job or residence.

- The Alumni coverage is guaranteed renewable. That means that once you are insured, even if your health should deteriorate you can never be refused renewal of your existing coverage.

- The program includes a Disability Waiver of Premium benefit which means that if you should become disabled, your insurance remains in force, even if you are unable to pay the premium.

- Units of the insurance are assignable. This enables you to use all or some of your coverage as collateral for a loan. You can even use some of the units as mortgage insurance if you have purchased—or are planning to

purchase a house.

When you consider all these features, you can see that the Plan offers you a very comprehensive set of life insurance benefits.

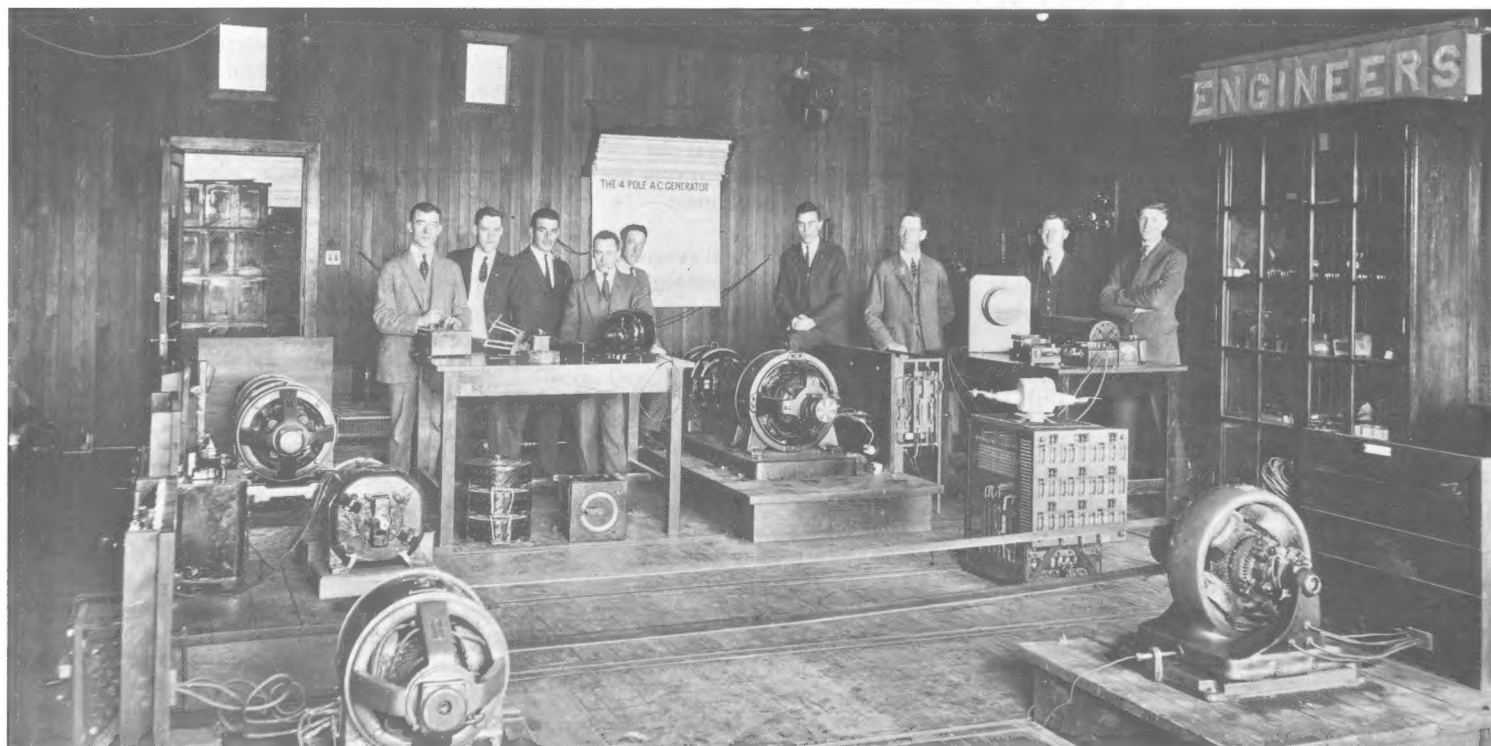
The introduction of the Alumni Plan provides you with an ideal opportunity to review your insurance needs. Ask yourself if any changes have occurred in your life since you last looked at your insurance coverage. Have you been married, had a child, bought a house, or received a promotion since then? All these changes affect the amount of protection you should have. It is also important to consider the effects of inflation. The high rate of inflation that the country has been experiencing erodes the value of your current coverage with each passing year. Taking all these things into consideration, does the amount of life insurance you presently own still provide you with adequate protection?

The new University of Alberta Alumni Association Plan offers you an excellent means of either adding to your current coverage or beginning a life insurance program for yourself and your family. More details of the plan will be coming to you soon in the mail. However, if you wish to receive more information on the plan before then, simply write to the Special Products Division, North American Life Assurance Company, 105 Adelaide Street West, Toronto, Ontario M5H 1R1. They will be happy to help you start your plan for the future—today.

75th Anniversary

The University of Alberta will celebrate the 75th anniversary of its academic offerings in 1982-83. Alumni, staff, and students are invited to participate in the planning of the Jubilee celebrations by submitting ideas for special projects and events.

Please send your ideas to:
Dr. W.A. Presling, Chairman
75th Anniversary Policy Group
420 Athabasca Hall
The University of Alberta.
T6G 2E8

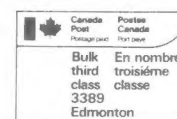


Engineers in 1924 (Courtesy UA Archives)

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